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Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/847i/CEMENT/2018-19 Date: 07.01.2019

TEST REPORT ON CEMENT

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Cement
Sample Received on	:	05.01.2019
Period of Testing	:	05.01.2019 to 07.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ರ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/847i/SAND-Gradation/2018-19 07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.50	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	61.00	30-70	55-90	75-100	90-100
600 Micron	39.40	15-34	35-59	60-79	80-100
300 Micron	20.90	5-20	8-30	12-40	15-50
150 Micron	7.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.90	95-100	85-100
20	41.60	30-70	0-20
10	15.50	10-35	0-5
4.75	3.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.36	95-100	85-100
10	33.06	25-55	0-20
4.75	7.16	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Samples ID	:	10mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.01.2019

13.03.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.1	O.K	O.K

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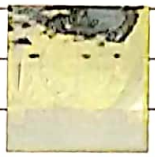
Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and CC drains at 16th A cross Bagaalagunte in Ward No.14, Bagalagunte, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/25/2018-19 Dated : 09.08.2018
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.01.2019



13.03.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	516	557	13.35	O.K	O.K

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